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Books Received

MULTICOMPONENT POLYMER SYSTEMS. Edited by I. S. Miles and S. Rostami. Longman Scientific & Technical, Essex, UK, 1992, 435pp. (UK£ 65.00).

This book is the first in the series *Polymer Science and Technology*, a series which, the publishers state, aims to deal with property-structure relationships in a thorough and systematic way. The aim of this particular volume, as expressed in the PREFACE, is "... to discuss the effects of combining different polymers or combining polymers with inorganic fillers ...", for applications ranging from advanced structural composites to organic coatings. Thirteen authors contribute to this volume which contains ten chapters. The chapter headings follow:

- | | |
|---|--|
| 1. Overview | <i>I. S. Miles and S. Rostami</i> |
| 2. Polymer Interfaces..... | <i>I. S. Miles</i> |
| 3. Polymer-Polymer Blends..... | <i>S. Rostami</i> |
| 4. Block Copolymers | <i>R. W. Richards</i> |
| 5. Rubber-Toughened Polymers | <i>I. K. Partridge</i> |
| 6. Phase Behaviour in Ionomers | <i>D. Wollman and A. Eisenberg</i> |
| 7. Filled Polymers | <i>L. A. Utracki and T. Vu-Khanh</i> |
| 8. Short Fibre Reinforced Polymers | <i>M. J. Folkes</i> |
| 9. Fiber Reinforced Advanced Structural Composites..... | <i>J. A. Peacock, F. Neil Cogswell</i> |
| 10. Coatings..... | <i>A. Doroszkowski, E. West</i> |

The volume has a 9-page Index and is well documented with references.

HANDBOOK OF ADHESION. Edited by D. E. Packham. Longman Scientific & Technical, Essex, UK, 1992, 570pp. (UK£80.00).

This handbook is another volume in the new series from this publisher, *Polymer Science and Technology*. However, as pointed out in the FOREWORD, this handbook differs from other such handbooks, "... in the wide range of technologies covered and in its format. About two hundred articles are arranged in alphabetical order; extensive cross-referencing enables the reader to study all the complementary subject material ..." A nice feature is the cross-referencing in the text to other articles by indicating the name of the other articles in bold. An excellent 16-page Index is provided, in which the titles of the articles are given in bold letters and the pages on which they start are shown in bold numerals.

The headings of the various classes of articles are as follows:

GENERAL

BACKGROUND MATERIALS SCIENCE

secondary bonds, surface energy, interfacial tension

polymer science

mechanics

other

THEORIES OF ADHESION

ADHESIVE-SUBSTRATE INTERFACE

SURFACE CHARACTERIZATION

ADHESIVE TYPES

classification

broad categories

specific chemical types

TESTING

PRETREATMENT OF SURFACES

metals

polymers

PRIMERS

ENVIRONMENT AND DURABILITY

ENGINEERING DESIGN

PROCESSING AND ASSEMBLY

WELDING AND AUTOADHESION

APPLICATIONS OF ADHESIVES

COMPOSITE MATERIALS

PAINT

RUBBER

MASTICS AND SEALANTS

There are three Appendices:

APPENDIX 1. Standards concerned with adhesion and adhesives (BS, ASTM and ISO).

APPENDIX 2. Standard test methods for adhesive joints.

APPENDIX 3. Selected bibliography on adhesion, which is associated with one of the articles in the Handbook entitled *Literature on Adhesion*.

PLASMA SURFACE MODIFICATION OF POLYMERS: Relevance to Adhesion.

Edited by M. Strobel, C. S. Lyons and K. L. Mittal. VSP, Utrecht, The Netherlands, 1994, 290pp. (DM122/US\$79).

As stated in the PREFACE, this book, "... is a collection of invited papers written by internationally recognized researchers actively working in the field of plasma surface modification ...". The book is divided into three sections, *Technology Review*, *Characterization of Plasma-treated Surfaces* and *Practical Applications of Plasma-treated Surfaces*, containing a total of fifteen papers. The papers were originally pub-

lished (in a different order) in two special issues of the *Journal of Adhesion Science and Technology*. It contains no Index.

ADHESION MEASUREMENT OF FILMS AND COATINGS. Edited by K. L. Mittal. VSP, Utrecht, The Netherlands, 1995, 456pp. (DM147/US\$96).

This volume contains the proceedings of the International Symposium on Adhesion Measurement of Films and Coatings, held in Boston, Massachusetts, 5–7 December, 1992. The papers were published earlier in three issues of the *Journal of Adhesion Science and Technology*. There are 28 papers, covering the application of various test methods for determining “adhesion” of coatings and films, such as scratch, peel, pull, constrained blister, three-point flexure, laser spallation, constant rate tensile, swelling, as well as various non-destructive methods. Also included are a number of papers on mechanical analyses of various coating/film-substrate combinations. There is no Index.

CONTACT ANGLE, WETTABILITY AND ADHESION. Edited by K. L. Mittal. VSP, Utrecht, The Netherlands, 1993, 971pp. (no price given).

This large volume (subtitled, “Festschrift in honor of Professor Robert J. Good”) contains the proceedings of the Symposium on Contact Angle, Wettability and Adhesion, held in honor of Professor Robert J. Good at the American Chemical Society meeting in San Francisco, California, April 6–10, 1992. These papers were reprinted from earlier publication in the *Journal of Adhesion Science and Technology*. Following a sketch on the life and contributions of Professor Good, the 61 technical contributions are organized into four sections: *Part 1: General Papers; Part 2: Factors Influencing Contact Angle Measurements; Part 3: Wettability Behavior and Surface Characterization of Various Materials; Part 4: Wettability and Adhesion, and Applied Aspects of Contact Angle/Wettability*. The volume lacks an Index.